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INTRODUCTION

The Coal Technology Information Centre was established in April, 1978, as part of the Alberta Research Council. The Centre, which is funded by the Alberta Department of Energy and Natural Resources, (Energy Resources Research Fund) acts as an agency through which information can be furnished to Government Departments, Industry and Universities.

The objective of the Coal Technology Information Centre is to identify, collect, index, store, retrieve and disseminate information related to the winning and subsequent processing of coal. As well, as maintaining and updating a computerized searchable data bank, the Centre provides a published cumulative edition and a semi-annual update of the Coal-Abs Index.

The published Index consists of: a List of Holdings, Keyword Index, Author Index and Corporate Author Index.

LIST OF HOLDINGS - consists of identifier, title, author, source and other revelant information related to each document in the data bank.

example:

0178 84 (*) Article, Gasification

Design considerations for an in-situ gasification test of Eastern bituminous coals
By Strickland, L.D. / Martin, J.W. / Liberatore, A.J.
Morgantown Energy Research Centre, Morgantown, West Virginia
Proceedings of the 13th Intersociety Energy Conversion Engineering Conference, Volume 1, San Diego, California, p. 355-365 Aug. 1978

(*) means a table of contents for this document is available on-line

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(a) Identifier:

List of Holdings is arranged in separate subject categories. The first two numbers of the identifier are a number code indicating one of the eleven different subject classifications.

01 GASIFICATION
02 LIQUEFACTION
03 BENEFICIATION
04 MINING
05 ENVIRONMENT
06 COMBUSTION
07 GEOLOGY
08 TRANSPORTATION
09 EXPLORATION
10 PROPERTIES
11 ENERGY POLICY

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(b) Abstracts:

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(c) Keywords:

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KEYWORD INDEX - consists of an alphabetical listing of keywords followed by the identifier, title and report number of the document in which they appear. These citations are also listed in descending chronological order.

AUTHOR INDEX - consists of an alphabetical listing by author surname.

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The Centre maintains a full copy of the original article for reference purposes. All material in the data bank can be photocopied for a small service charge.

Any on-line search requests can be conducted through the Coal Technology Information Centre.

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GASIFICATION

0147 0 Report, Gasification

Gas Filtration in a coal bed (concerning leaks of gas and blast in the underground gasification of coal beds)
By Charnyi, I.A.
Izvestiya AN SSSR, ovdeleniye tekhnicheskikh nauk, No. 2, p. 131-141, 1947
Report No.: LLL.02176

0151 0 Report, Gasification

Research and development, Synthesis gas laboratories and pilot plants, Morgantown, W.Va., and Gorgas, Ala.

Bureau of Mines, Office of the Interior, Pittsburgh, Pa., 1951
Report No.: BOM.RI 4089

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The process of underground electrocarbonization
By Forrester, J.D. / Sarapuu, E.
School of Mines and Metallurgy, University of Missouri, Technical Series, No. 78, Jan. 1952
Report No.: MSOM.78

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Underground electrocarbonization of coal and related hydrocarbons
By Cheasley, T.C. / Forrester, J.D. / Sarapuu, E.
Annual Meeting, Coal Division, American Institute of Mining and Metallurgical Engineers, Feb. 1954

0156 0 Report, Gasification

The conversion of coal to chemicals and other products
By Burrough, E.J.
Çanada Department of Mines and Technical Surveys, Ottawa, Ontario, March 1956
Report No.: CDMT.FRL-240

0161 0 Book, Gasification

A low temperature carbonization assay of Alberta coals
By Davies, G. / Moreland, C. / Berkowitz, N. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Information Series No. 34, Edmonton, Alberta, 1961
Report No.: ARC. 34

0161 1 Book, Gasification

Pilot plant investigations of low temperature coal carbonization in a fluidized bed
By Davies, G. / Moreland, C. Alberta Research Council, Edmonton, Alberta
Alberta Research Council, Information Series No. 37, Edmonton, Alberta, 1961
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0163 0 Book, Gasification

Underground gasification of coal, 1945 - 60: A bibliography
By Capp, J.P. / Lowe, R.W. / Simon, D.W.
Bureau of Mines, Information Circular 8193, for U.S. Department of the Interior, 1963
Report No.: BOM.IC 8193

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Isreal Program for Scientific Translations, Jerusalem, Isreal
National Science Foundation, Washington, D.C., 1963
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American Institute of Chemical Engineers, New-York, New-York
Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, Aug. 1964
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Market control on the development of the Athabasca Oil Sands
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Retorting of Yugoslav (Aleksinac) oil shale by gas combustion retort
By Matic, D. / Mijatovic, I. American Institute of Chemical Engineers, New-York, New-York

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Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, p. 25-32, Aug. 1964
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Composition and reactions of oil shale of the Green River Formation
By Jones, D.G. / Dickert, J.J. American Institute of Chemical Engineers, New-York, New-York
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Effect of retorting temperature on the composition of shale oil
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Methane, Ethane, and Propane from American Oil Shales by hydrogasification: Green River formation shale and shales of the Eastern United States and New Brunswick
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Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, p. 48-59, Aug. 1964
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Countercurrent combustion: A process for retorting oil shale
By Allred, V.D. / Nielson, G.I. American Institute of Chemical Engineers, New-York, New-York
Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, p. 60-67, Aug. 1964
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Hydrorefining of diesel fuel and crude oil derived from Aleksinac oil shales
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Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, p. 68-75, Aug. 1964
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Conversion of solid fossil fuels to high heating value pipeline gas
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Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, p. 76-103, Aug. 1964
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Pilot plant experiments in slagging gasification
By Gronhovd, G.H. American Institute of Chemical Engineers, New-York, New-York
Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, p. 104-113, Aug. 1964
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Latest developments in oil shale mining equipment
By Allen, J.C. American Institute of Chemical Engineers, New-York, New-York
Hydrocarbons from oil-shale, oil-sands and coal, Chem. Eng. Prog. Symp. Ser., Vol. 61, No. 54, p. 5-6, Aug. 1964
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0164 13 Article, Gasification

The role of in pore mass transport resistance in the reaction of porous solids with gases: The air oxidation of large tubes of graphite
By Hawtin, P. / Murdoch, R.
Chem Eng Sci, Vol. 19, p. 819-834, 1964

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Coal as a non fuel source material: The present status, Part I
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A note on the reaction mechanism in the underground gasification of coal
By Szekely, J. / Maroudas, N.G.
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Gasification of coal under conditions simulating stage 2 of the BCR two stage super pressure process
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Presented at a Symposium on Gasification Division of Fuel Chemistry, 152nd National Meeting of American Chemical Society, New-York, New-York, Sept. 1966

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Coal pretreatment and gasification
By Patel, J.G. / Schora, F.C. / Loeding, J.W.
Assignees: Institute of Gas Technology, Nov. 1977, P. 6, PP. 48-197R: C10J3/16, Patent: U.S. 4057402, June 1976, Appl. 700536, June 1976
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Coal Liquefaction bottoms conversion by coking and gasification
By Lang, R.J.
Assignees: Exxon Research and Engineering Co., Nov. 1977, p. 11 PP. 208-8, C10G1/04, Patent: U.S. 4060478, Sept. 1976, Appl. 728335, Sept. 1976
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Underground gasification techniques
By Mahajan, H.L.
Journal of Mines, Metals and Fuels, April 1967, p. 103-110, April 1967

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Direct conversion of carbonaceous material to hydrocarbons

By Hoffman, E.J.
Assignees: University of Wyoming, April 1967, 629498, C10G1/08, Patent: United-States, April 1970, 3505204, April 1967
Report No.: P.3505204

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Gas release from coal as a function of the rate of heating
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Bulletin of the Bergbau-Forschung, G.m.b.H., Essen-Kray, Germany p. 103-117, 1967

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Reaction of Coal with Steam at high pressures
By Friedman, S. / Lewis, P.S. / Graves, R.D. / Hiteshue, R.W.
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Phase II, Bench scale research on CSG process. Operation of the Bench scale continuous gasification unit
By Curran, G.P. / Fink, C.E. / Gorin, E. Consolidation Coal Company, Library, Pennsylvania
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Report No.: OCR.16

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Office of Coal Research, Department of the Interior, Washington, D.C., Nov. 1968
Report No.: NTIS.PB-235 318

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Process design and cost estimate for a 258 billion Btu/day pipeline gas plant, Hydrogasification using synthesis gas generated by electrothermal gasification of spent char
Institute of Gas Technology, Chicago, Illinois
Office of Coal Research, Department of the Interior, Washington, D.C., Jan. 1968
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Method and system for gasifying underground deposits of coal
By Von-Hippel, H.J.
Assignee: Muhlenkamp 12, Lunen, Germany, May 1968, 729799, Patent: United-States, April 1970, 3506309, May 1968

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Comparison of kinetic and diffusional models for solid gas reactions
By Ishida, M. / Wen, C.Y. West-Virginia University, Morgantown, West-Virginia
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Influence of residence time, temperature, and steam concentration on coal steam gasification reactions
By Konchesky, J.L. / Stewart, R.F.
U.S. Department of the Interior, Bureau of Mines, Report on Investigations 7284, Aug. 1969

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Gas Generator Research and Development Phase II: Process and Equipment Development
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By Gronhovd, G.H. / Harak, A.E. / Fegley, M.M. / Severson, D.E.
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Coal gasification by the IGT Hygas process
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By Tsaros, C.L. / Subramaniam, T.K.
Institute of Gas Technology IIT Center, Chicago, Illinois, Feb. 1971

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By Archer, D.H. / Keairns, D.L. / Hamm, J.R. Westinghouse Research and Development Center, Pittsburgh, Pennsylvania
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National Technical Information Service, Springfield, Virginia, Oct. 1971
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National Science Foundation, Washington, D.C., Nov. 1971
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Development of the carbon dioxide acceptor process directed towards low sulfur boiler fuel
By Curran, G.P. / Clancey, J.T. / Fink, C.E. / Pasek, B. / Pell, M. / Gorin, E. Consolidation Coal Company, Library, Pennsylvania

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Assignee: Cities Service Oil Company, Tulsa, Okla., Sept. 1971, Patent: United-States, 3,770,398, Nov. 1973, Appl. 181,489, Sept. 1971
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Simultaneous nonisothermal noncatalytic solid gas reactions
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By Bresler, S.A. / Ireland, J.D.
Chemical Engineering, October 16, 1972, p. 94-108, Oct. 1972

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Development of the Hygas process for converting coal to synthetic pipeline gas
By Lee, B.S.
SPE-AIME, Institute of Gas Technology, Dec. 1972, p. 1407-1410, Dec. 1972

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Institute of Gas Technology, Chicago, Illinois, Paper presented at A.I.Ch.E. 65th Annual Meeting, New York, Nov. 1972

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Coal - The Black Magic
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The importance of temperature approach in heat exchangers
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Chemtech, March 1972, p. 167-172, March 1972

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The Coalplex: Gas, Gasoline, and Clean Electricity from Coal
By Squires, A.M.
Presentation at 65th Annual Meeting of the American Institute of Chemical Engineers, New York City, Nov. 1972

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A new concept for in situ coal gasification
By Higgins, G.H. Lawrence Livermore Laboratory, University of California, Livermore, California
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The Synthane process - Research results and prototype plant design
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Self agglomerating fluidized bed reacting process
By Godel, A.A.
Assignees: Compagnie Industrielle de Procedes et D'Applicat: May 1978, Cont.-in-part United-States 3840345, 423-659, Patent: United-States, 4088745, June 1972, Appl. 265925, June 1972
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Situ coal bed gasification
By Higgins, G.H.
Assignees: United-states Atomic Energy Commission, May 1972, Patent: United-States, 3794116, Feb. 1974, Appl. 257965, May 1972
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By Koh, K.K. / Nahas, N.C. / Pennington, R.E.
Assignees: Exxon Research and Engineering Company, June 1978, C10J3/54, Patent: United-States, 4094650, Sept. 1972, Appl. 287319, Sept. 1972
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By Johnson, C.A. / Shen, J.
Assignees: Hydrocarbon Research, Inc., July 1978, C10J3/54, Patent: United-States, 4099933, June 1973, Appl. 365910, June 1973
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By Berkowitz, N.
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The Energy Crisis and Coal Gasification
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By Wen, C.Y.
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Assignee: Societe des Electrodes et Refractaires Savoie/Sers, June 1980, Patent: South-Africa, 792 745, May 1979, Appl. 79/27/45, June 1980
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Assignee: H. Wurfel, Blieskastel, Federal Republic of Germany, July 1980, 5p., 208/10, C10G1/06, Patent: United-States, 4 214 974, Sept. 1978, Appl. 941 945, July 1980
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Assignee: K.L. Storrs, Salt-Lake-City, Utah, May 1980, 10p., C10B57/00, Patent: England, 1 561 800, Oct 1976, Appl. 41301/76, March 1980
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